

Title (en)

MODULE FOR THE TORQUE CONTROL OF FRICTION COUPLING MEANS OF A MOTOR VEHICLE DRIVE TRAIN COMPRISING A STATE OBSERVER

Title (de)

MODUL ZUR DREHMOMENTSTEUERUNG EINER REIBKUPPLUNGSVORRICHTUNG EINES KRAFTFAHRZEUGANTRIEBSSTRANGS MIT ZUSTANDSBEOBSACHTER

Title (fr)

MODULE DE PILOTAGE EN COUPLE DE MOYENS D'ACCOUPLEMENT A FRICTION D'UNE CHAÎNE DE TRANSMISSION DE VEHICULE AUTOMOBILE COMPORTANT UN OBSERVATEUR D'ETATS

Publication

EP 2297476 A1 20110323 (FR)

Application

EP 09737068 A 20090716

Priority

- FR 2009051414 W 20090716
- FR 0854822 A 20080716

Abstract (en)

[origin: WO2010007321A1] The invention relates to a torque control module for means of friction coupling between a drive shaft and an associated gearbox input shaft belonging to a motor vehicle drive train, characterized in that it comprises an observer (50), notably of the Luenberger observer type, employing the dynamic mathematical model that simulates the dynamic behaviour of all the rotary parts of the motor vehicle drive train and which is able to calculate an estimate of state variables (X^*) which are representative of the complete current dynamic state of the drive train from measured state variables (Y), measured control variables (U) and the earlier estimate of the state variables (X^*), in accordance with an evolution matrix (A) and a correction matrix (L).

IPC 8 full level

F16D 48/06 (2006.01)

CPC (source: EP KR)

F16D 13/00 (2013.01 - KR); **F16D 48/00** (2013.01 - KR); **F16D 48/06** (2013.01 - EP KR); **F16D 2500/3065** (2013.01 - EP); **F16D 2500/3067** (2013.01 - EP); **F16D 2500/30806** (2013.01 - EP); **F16D 2500/3081** (2013.01 - EP); **F16D 2500/3144** (2013.01 - EP); **F16D 2500/50287** (2013.01 - EP); **F16D 2500/7044** (2013.01 - EP); **F16D 2500/70605** (2013.01 - EP); **F16D 2500/708** (2013.01 - EP)

Citation (search report)

See references of WO 2010007321A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2010007321 A1 20100121; AT E540237 T1 20120115; EP 2297476 A1 20110323; EP 2297476 B1 20120104; FR 2934026 A1 20100122; FR 2934026 B1 20120302; KR 101614177 B1 20160420; KR 20110104929 A 20110923

DOCDB simple family (application)

FR 2009051414 W 20090716; AT 09737068 T 20090716; EP 09737068 A 20090716; FR 0854822 A 20080716; KR 20117000511 A 20090716